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lab 7 Postlab.

① What are the advantages and disadvantages of state space search

Ans] Advantages:

- (i) Completeness.
- (ii) Flexibility.
- (iii) Optimality.
- (iv) Modularity.

Disadvantages:

- (i) Exponential growth.
- (ii) Complexity.
- (iii) Memory requirement.

② What are the advantages and disadvantages of Hill Climb approach.

Ans] Advantages:

- (i) Simplicity.
- (ii) Efficiency.
- (iii) Memory Efficiency.
- (iv) Scalability.

Disadvantages:

- (i) Local optima.
- (ii) Sensitivity.
- (iii) Limited Exploration.
- (iv) Plateaus and Ridges.



Q3] Variations of Hill Climbing Approach.

- (i) Simple hill climbing.
- (ii) Steepest-Ascent Hill Climbing.
- (iii) Random-Restart Hill Climbing.
- (iv) Simulated Annealing.
- (v) Stochastic hill Climbing.